

FIGURE 1

FIGURE 1 CONTINUED

SEQ ID NO:50	NO:10	SEQ ID NO:14	NO:26	SEQ ID NO:30	NO:32	SEQ ID NO:34	NO:36	SEQ ID NO:42	NO:44	SEQ ID NO:46	NO:48	SEQ ID NO:50	NO:54	SEQ ID NO:63														
TIEEDNLISQYISSHGEGRWNILLAKRSGLK--	--RTGKSCRLRWLNYLKPDKVKGNLTPQE	TPEEDIILVSYIQEHGPGNWRRAVPAKTGLS--	--RCSKSCRRLWTNYLRPGIKRGNFTEQE	TMEEDLILINYIANHGEGVWNSLAKAAGLK--	--RTGKSCRLRWLNYLRPDVRRGNITPEE																							
61														120														
SEQ ID NO:10	NO:10	SEQ ID NO:14	NO:14	SEQ ID NO:26	NO:26	SEQ ID NO:30	NO:30	SEQ ID NO:32	NO:32	SEQ ID NO:34	NO:34	SEQ ID NO:36	NO:36	SEQ ID NO:42	NO:42	SEQ ID NO:44	NO:44	SEQ ID NO:46	NO:46	SEQ ID NO:48	NO:48	SEQ ID NO:50	NO:50	SEQ ID NO:54	NO:54	SEQ ID NO:63	NO:63	
QLLILDHTRWGNRWSKIAQHLPGRTDNEIKNYWRTHLRK--	--LKLKQQKQQQSDD--	ERMVVQLHAKLGNGNRSRIAKS1PGRTDNEIKNYWRTHLRK--	--LKLKQQKQQQSDD--	EKLIVHLQALLGNRWAIAASYLPERTDNDIKNYWNTHLKKKLKMMQAAGGGEDSGAASEG		QLLIMELHAKWGNGNRSKIAKHLPGRTDNEIKNYWRTRIQQHKHQAE-N-FQQQISN--		QLLIMELHAKWGNGNRSKIAKHLPGRTDNEIKNYWRTRIQQHKHQAE-SFFQQQSSN--		QLLIELHAKWGNGNRSKIAKHLPGRTDNEIKNYWRTRIQQHKHQAE-TSQQHGNSS--		QLLIELHAKWGNGNRSKIAKHLPGRTDNEIKNYWRTRIQQHKHQAE-N-FQQQSSN--		QLLIMELHAKWGNGNRSKIAKHLPGRTDNEIKNYWRTRIQQHKHQAE-N-FQQQSSN--		QLLILELHSKGNGNRSKIAQHLPGRTDNEIKNYWRTRIQQHKHQAE-N-FQQQSSN--		QLLILELHSRGNGNRSKIAQYLPGRTDNEIKNYWRTRVQKHAKQLKCVDNSKQFKDT--		QLLILELHSRGNGNRSKIAQYLPGRTDNEIKNYWRTRVQKHAKQLKCVDNSKQFKDT--		QLLILELHSKGNGNRSKIAQHLPGRTDNEIKNYWRTRIQQKQARHLKIYTDSREFQEL--		QLLILELHSKGNGNRSKIAQHLPGRTDNEIKNYWRTRIQQKQARHLKIIDTDTREFQEL--		EKMIIHLQDLLGNGNRSKIAASYLYLPQRTDNDIKNYWNTHLRKKLKMQAGGE--		QLLIMELHSKGNGNRSKIAKHLPGRTDNEIKNYWNTHLRKKLKMQAGGE--
121																										180		
SEQ ID NO:10	NO:10	SEQ ID NO:14	NO:14	SEQ ID NO:26	NO:26	SEQ ID NO:30	NO:30	SEQ ID NO:32	NO:32	SEQ ID NO:34	NO:34																	
-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*	-----*			
-----MRYLWMPHLADDVDTIAANDDD-EDHHNLLVLHHHQAQ	-----HH-----NDNDDDDRNSS-SSSSSNNSNLQQQPQ-	-----GGGRGDGGGSVKAAAPKGQWERRLQDTHTARQALRDALS-----LDHPDBSPAT	-----NSEINDHQAS---TSHVSTMAEPMETYSPPF	-----SEIIYHPQAC---TSQVSTMAQPIETYSPPS	-----ENSNNDHQASNS-TSKVSTMAHPNETFSSPS																							

FIGURE 1 CONTINUED

SEQ ID NO:36	-----NSEINDHQAS---TSHVSTMAEPMEMYSPPC
SEQ ID NO:42	-----XKCFWMMPRLQQK---MEQNSNP---SPHHSSM-----TNMM
SEQ ID NO:44	-----MRYIWMPLIVE-----RI-QATAAASAAPQPVTVPVPRP
SEQ ID NO:46	-----MXYLXXXKARG-THSSSGDPRN-HHRCNGRHHQQCIHLRXQP
SEQ ID NO:48	-----VRRFWMMPRLQQK--AKESSSSNM-SIQNQAIIPMPFDYVSQHL
SEQ ID NO:50	-----VRRFWMMPRCFKK--PKNH-----LLQPCQEKFTRQL
SEQ ID NO:54	-----GSFGEFFSASRQI---PRGQWERRLQTDIOMAKRALSEALSPEKKPSCLSAASNINPSD
SEQ ID NO:63	-----LEINDHHHHPHQPS-SSQVSNLVEPMETYSPTS

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SEQ ID NO:10	-----HLQQAAGGAANDLAAGAYDVRLQ-----HALPSSGMAATSSSDLASESYDDGGLLFAN
SEQ ID NO:14	-----PEDE-----SSASGLQAAQHEDQHQFLH-PLWNDDIVDVDCWSSSTNVVA
SEQ ID NO:26	-----AAAATPAGSSAA----YASSADNIARLLQGWMR--PGGGGGNGKGPEA-----SGSTST
SEQ ID NO:30	-----YQGML-----EPESS-----
SEQ ID NO:32	-----YQGML-----DFPS-----
SEQ ID NO:34	-----YQATF-----EFQ-----EFQ-----
SEQ ID NO:36	-----YQGML-----EPFST-----EPFST-----
SEQ ID NO:42	-----NLGNSG---EASMSMSSSFNINPSMSSSSSSPKGNLLWM-----MP-----NHF-----
SEQ ID NO:44	-----YTIKFEVLNHKGGRMGLTDPSVANNDFVGSHVTQRYPTPENSSTGASSSDSFGTQVSTISD
SEQ ID NO:46	-----TVGTIPWQGPCKNEAGPTYMDQHEQTQTRNTNNNGSCISLSESANIPKVP-----QHFG
SEQ ID NO:48	-----L-----CLIMV---FLS-----IQL-----
SEQ ID NO:50	-----SSSFSTKPTTQSVCYASSADNIARMLKGWMKNPPKSRTNSSMTQNSENNLAGADTA
SEQ ID NO:54	-----YQGTL-----EPF-P-----EPF-P-----
SEQ ID NO:63	

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FIGURE 1 CONTINUED

SEQ ID NO:10 LRAGEMLMGGDWAAQQEADQGL-----WPPPPPPPSLDQSVVQAAGAGAGQFQ----D
SEQ ID NO:14 PP-----PM-----PA-----S-----PAS-----PECS
SEQ ID NO:26 TATTQQQPQCSGEGAAASA-----SASASQSGAAAATAQT-----
SEQ ID NO:30 -----
SEQ ID NO:32 -----
SEQ ID NO:34 -----
SEQ ID NO:36 -----
SEQ ID NO:42 KYYVQ----PHQSIPRF-----LPIFTAT-----
SEQ ID NO:44 L-----ITTNSRFTITRA-----
SEQ ID NO:46 LTENSSVPENTNSADY--YQPSQIISNY---SDNCITSPSGFLFPQLDLQSMD-----
SEQ ID NO:48 HTTITQFHAL----NTNDFGTFTYEGYN--VNNNVYEMDNFKTTTWVAEDAQYPIGDCQ
SEQ ID NO:50 ---LGPYHHI----HT-----PLG-----
SEQ ID NO:54 CSSGAKGPLSSAELSENNEFSL----FDFDQSLLESSNSDQFSQSSL-----PEAT
SEQ ID NO:63 -----TQFP-----T-----
301
360

FIGURE 1 CONTINUED

*
MELSGWV-----QGFSESTITDNFWALEEIWKMQ.-----
---PLWDID-----DAFFCSDYSLPLWG.-----
---TETSK-----MATGGGAGGPAPAFSMLESWLDDGGMGLMDVVPLGDPSEFF
INPDQ-----SSCCTNDNNNSINYWSMEDIWSMQLLN---GD.-----
-NPHH-----SSCCTNDDDNN-NYWSMEDIWSMQL-A---NY.-----
SMINQ-----VVVPAT-----TIGASRISGRLC---NYSMEIN
INPDQ-----SSCCTNDNNN-INYWSMEDSWSMQLLN---G----D
SEQ ID NO: 10
SEQ ID NO: 14
SEQ ID NO: 26
SEQ ID NO: 30
SEQ ID NO: 32
SEQ ID NO: 34
SEQ ID NO: 36
SEQ ID NO: 42
SEQ ID NO: 44
SEQ ID NO: 46
SEQ ID NO: 48
SEQ ID NO: 50
SEQ ID NO: 54
SEQ ID NO: 63

-----KWG-----
-----PNTPWNMQSGDSSDN-----FWDVESMILFILEQQL-----MNDNM-----
MVGSNWV-----NNDFACNMWNMDELWQFSKLQ-----K
-----RDIV.-----
VLQDE-----SKPDINIAAEIMPESLLEKWLDEAGCQEKLVGCCGDAK-FF
INNDH-----HQNSNCANDNNN-NYWSMEDIWSMQLLN---G----D

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